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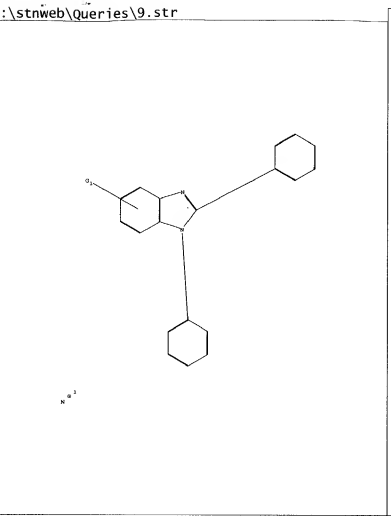

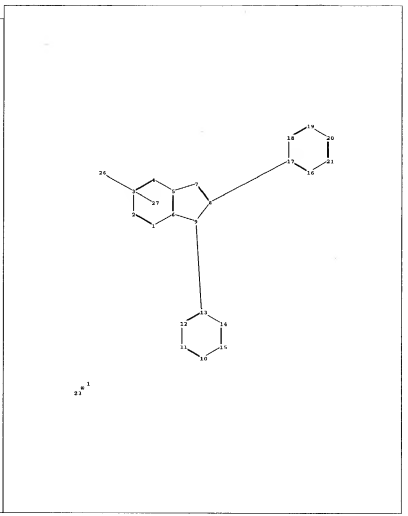

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   8-17  9-13
ing bonds :
   1-2  1-6  2-3  3-4  4-5  5-6  5-7  6-9  7-8  8-9  10-11  10-15  11-12  12-13  13-14  14-15
   16-17  16-21  17-18  18-19  19-20  20-21
act/norm bonds :
   5-7  6-9  7-8  8-9  9-13
act bonds :
   8-17
rmalized bonds :
   1-2  1-6  2-3  3-4  4-5  5-6  10-11  10-15  11-12  12-13  13-14  14-15  16-17  16-21  17-18
   18-19  19-20  20-21
olated ring systems :
   containing 10 : 16 :


1:O,[*1]

atch level :
   1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:Atom  11:Atom
   12:Atom  13:Atom  14:Atom  15:Atom  16:Atom  17:Atom  18:Atom  19:Atom  20:Atom  21:Atom
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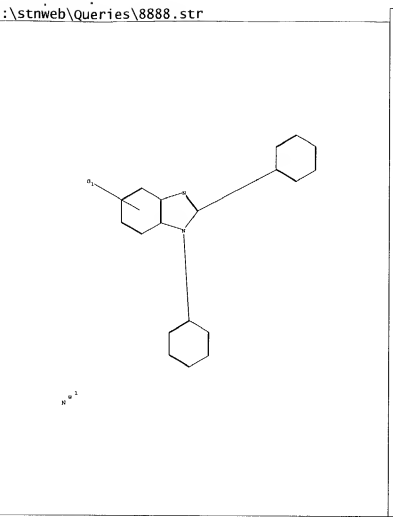

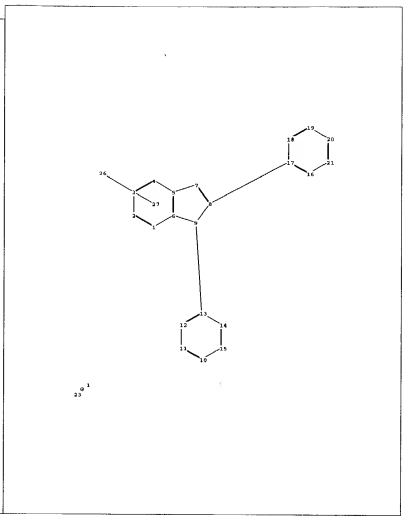

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   23  26
ing nodes :
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nain bonds :
   8-17  9-13
ing bonds :
   1-2  1-6  2-3  3-4  4-5  5-6  5-7  6-9  7-8  8-9  10-11  10-15  11-12  12-13  13-14  14-15
   16-17  16-21  17-18  18-19  19-20  20-21
xact/norm bonds :
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   8-17
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   1-2  1-6  2-3  3-4  4-5  5-6  10-11  10-15  11-12  12-13  13-14  14-15  16-17  16-21  17-18
   18-19  19-20  20-21
solated ring systems :
   containing 10 : 16 :

1:O,[*1]

atch level :
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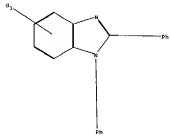

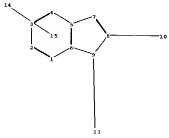

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xact/norm bonds :
5-7 6-9 7-8 8-9
xact bonds :
8-10 9-11
ormalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
solated ring systems :
containing 1 :

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atch level :
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14:CLASS 15:CLASS

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* * * * * * * * * *  Welcome to STN International  * * * * * * * * * *

NEWS  1           Web Page URLs for STN Seminar Schedule - N. America
NEWS  2           "Ask CAS" for self-help around the clock
NEWS  3  SEP 09   CA/CAplus records now contain indexing from 1907 to the
                  present
NEWS  4  DEC 08   INPADOC: Legal Status data reloaded
NEWS  5  SEP 29   DISSABS now available on STN
NEWS  6  OCT 10   PCTFULL: Two new display fields added
NEWS  7  OCT 21   BIOSIS file reloaded and enhanced
NEWS  8  OCT 28   BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS  9  NOV 24   MSDS-CCOHS file reloaded
NEWS 10  DEC 08   CABA reloaded with left truncation
NEWS 11  DEC 08   IMS file names changed
NEWS 12  DEC 09   Experimental property data collected by CAS now available
                  in REGISTRY
NEWS 13  DEC 09   STN Entry Date available for display in REGISTRY and CA/CAplus
NEWS 14  DEC 17   DGENE: Two new display fields added
NEWS 15  DEC 18   BIOTECHNO no longer updated
NEWS 16  DEC 19   CROPU no longer updated; subscriber discount no longer
                  available
NEWS 17  DEC 22   Additional INPI reactions and pre-1907 documents added to CAS
                  databases
NEWS 18  DEC 22   IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS 19  DEC 22   ABI-INFORM now available on STN
NEWS 20  JAN 27   Source of Registration (SR) information in REGISTRY updated
                  and searchable
NEWS 21  JAN 27   A new search aid, the Company Name Thesaurus, available in
                  CA/CAplus
NEWS 22  FEB 05   German (DE) application and patent publication number format
                  changes
NEWS 23  MAR 03   MEDLINE and LMEDLINE reloaded
NEWS 24  MAR 03   MEDLINE file segment of TOXCENTER reloaded
NEWS 25  MAR 03   FRANCEPAT now available on STN

NEWS EXPRESS  DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT
              MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
              AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
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FILE 'HOME' ENTERED AT 23:31:56 ON 04 MAR 2004

=> file reg
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY     SESSION
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FULL ESTIMATED COST 0.21 0.21

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DICTIONARY FILE UPDATES: 3 MAR 2004 HIGHEST RN 658036-92-1

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

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L1 STRUCTURE UPLOADED

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L1 HAS NO ANSWERS
L1 STR

0 23 N 24
Page 1-A
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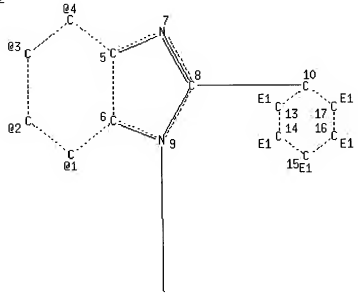
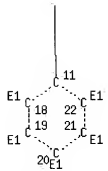


Page 1-B

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GRAPH ATTRIBUTES:
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NUMBER OF NODES IS  24

STEREO ATTRIBUTES: NONE


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SAMPLE SCREEN SEARCH COMPLETED -    258 TO ITERATE

100.0% PROCESSED     258 ITERATIONS                          6 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          4197 TO     6123
PROJECTED ANSWERS:                6 TO      266

L2            6 SEA SSS SAM L1

=> s l1 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 23:32:28 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   4708 TO ITERATE

100.0% PROCESSED    4708 ITERATIONS                        133 ANSWERS
SEARCH TIME: 00.00.01

L3          133 SEA SSS FUL L1

=> file hcaplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                             155.42     155.63

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FILE COVERS 1907 - 4 Mar 2004  VOL 140 ISS 10
FILE LAST UPDATED: 3 Mar 2004  (20040303/ED)

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 substance identification.


=> s 13
L4            5 L3

=> d l4, ibib abs fhitstr, 1-5

L4   ANSWER 1 OF 5  HCAPLUS  COPYRIGHT 2004 ACS on STN
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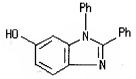
Full Text | Citing References

ACCESSION NUMBER: 2002:855869 HCAPLUS
DOCUMENT NUMBER: 139:179987
TITLE: Product class 4: benzimidazoles
AUTHOR(S): Grimmett, M. R.
CORPORATE SOURCE: Organic Chemistry, Dept. of Chemistry, University of Otago, Dunedin, N. Z.
SOURCE: Science of Synthesis (2002), 12, 529-612
CODEN: SSCYJ9
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English

AB A review. Methods for prepg. benzimidazoles are reviewed covering annulations to arenes, ring transformations, and aromatization. Modification of benzimidazole substituents are also included.

IT **117125-04-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(review of prepn. of benzimidazoles via cyclization, ring transformations, aromatization and modification of substituents)

RN 117125-04-9 HCAPLUS
CN 1H-Benzimidazol-6-ol, 1,2-diphenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 497 THERE ARE 497 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2001:526062 HCAPLUS
DOCUMENT NUMBER: 135:107328
TITLE: Preparation of 1,2-diarylbenzimidazolealkanoates and analogs for treatment of disorders mediated by microglia activation
INVENTOR(S): Kuhnke, Joachim; Halfbrodt, Wolfgang; Moenning, Ursula
PATENT ASSIGNEE(S): Schering Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 141 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001051473	A1	20010719	WO 2001-EP334	20010112

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

BR 2001007628	A	20021008	BR 2001-7628		20010112
EP 1246808	A1	20021009	EP 2001-915133		20010112
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR					
JP 2003523961	T2	20030812	JP 2001-551855		20010112
EE 200200390	A	20031015	EE 2002-390		20010112
US 2002006948	A1	20020117	US 2001-759360		20010116
BG 106821	A	20030131	BG 2002-106821		20020613
NO 2002003362	A	20020913	NO 2002-3362		20020712
PRIORITY APPLN. INFO.:			DE 2000-10002898	A	20000114
			US 2000-178324P	P	20000127
			WO 2001-EP334	W	20010112

OTHER SOURCE(S): MARPAT 135:107328

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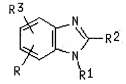


I

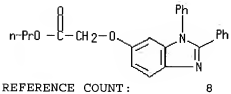
AB Title compds. [I; R = ZZ1R4; R1,R2 = (un)substituted (hetero)aryl; R3 = H, halo, substituted alkyl, alkoxy, etc.; R4 = CO2H, alkoxycarbonyl, CONH2, SO3H, etc.; Z = O, (alkyl)imino, acylimino; Z1 = (heteroatom-interrupted) alkyl(en)ylene, etc.] were prepd. Thus, I (R1 = R2 = Ph, R3 = H)(II; R = 6-OH) was etherified by BrCH2CO2CHMe3 to give II (R = 6-OCH2CO2CHMe3). Data for biol. activity of I were given.

IT **350231-38-8P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of 1,2-diarylbenzimidazolealkanoates and analogs for treatment of disorders mediated by microglia activation)

RN 350231-38-8 HCAPLUS

CN Acetic acid, [(1,2-diphenyl-1H-benzimidazol-6-yl)oxy]-, propyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER:	1995:737335 HCAPLUS
DOCUMENT NUMBER:	123:143893
TITLE:	Preparation of benzimidazoles as prostacyclin PGI2 mimetics.
INVENTOR(S):	Kuhnke, Joachim; Eckle, Emil; Thierauch, Karl-Heinz; Verhallen, Peter
PATENT ASSIGNEE(S):	Schering A.-G., Germany

SOURCE: Ger. Offen., 10 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4330959	A1	19950316	DE 1993-4330959	19930909
WO 9507263	A1	19950316	WO 1994-EP2948	19940906

W: JP, US
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

PRIORITY APPLN. INFO.: DE 1993-4330959 19930909
OTHER SOURCE(S): MARPAT 123:143893
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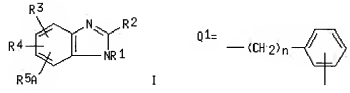
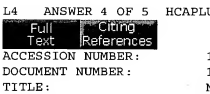


107

AB Title compds. [I; R1, R2 = (substituted) Ph, heteroaryl; R3, R4 = H, halo, alkyl, perfluoroalkyl, alkoxy, perfluoroalkoxy, carboxyl, alkoxycarbonyl, NO2, amino, etc.; A = bond, (O- or S-interrupted) alkylene, alkenylene, alkynylene, Q1; n = 1-4; R5 = carboxyl, SO3H, PO3H2, tetrazolyl], were prepd. as PGI2 mimetics and TXA2/PGH2 antagonists useful in treating thrombosis, arteriosclerosis, and hyperlipidemia (no data). Thus, 1,2-diphenyl-1H-benzimidazol-6-ol, MeO2CCH2Br, and K2CO3 were refluxed 3 h in acetone to give Me [(1,2-diphenyl-1H-benzimidazol-6-yl)oxy]acetate, which was stirred 24 h in a mixt. of aq. NaOH, THF, and MeOH to give [(1,2-diphenyl-1H-benzimidazol-6-yl)oxy]acetic acid.

IT **166396-70-9P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of benzimidazoles as prostacyclin PGI2 mimetics)

RN 166396-70-9 HCAPLUS
CN Acetic acid, [(1,2-diphenyl-1H-benzimidazol-6-yl)oxy]- (9CI) (CA INDEX NAME)



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L4 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1988:590316 HCAPLUS
DOCUMENT NUMBER: 109:190316
TITLE: New benzimidazole synthesis
AUTHOR(S): Benincori, T.; Sannicolo, F.
CORPORATE SOURCE: CNR, Univ. Milano, Milan, 20133, Italy
SOURCE: Journal of Heterocyclic Chemistry (1988), 25(3),

1029-33
CODEN: JHTCAD; ISSN: 0022-152X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 109:190316
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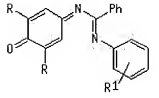

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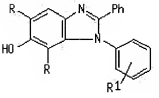
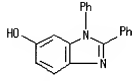


II

AB Thermal or acid catalyzed cyclization of several N-(N-arylbenzimidoyl)-1,4-benzoquinoneimines I (R = H, Cl, Me; R1 = H, 4-NO2, 4-MeO, 4-Cl, 4-Me, 2,5-Me2, 2,6-Me2) affords 1-aryl-6-hydroxy-2-phenylbenzimidazoles II in fairly good yields. Structural proofs and kinetic support for the reaction mechanism are given.

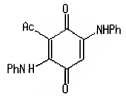
IT **117125-04-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 117125-04-9 HCAPLUS
CN 1H-Benzimidazol-6-ol, 1,2-diphenyl- (9CI) (CA INDEX NAME)



L4 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1978:105094 HCAPLUS
DOCUMENT NUMBER: 88:105094
TITLE: Reaction of 3-acetyl-2,5-dianilino-1,4-benzoquinone and N1-phenylbenzamidine; a synthesis of quinolinequinones
AUTHOR(S): Schaefer, Wolfram; Falkner, Christine
CORPORATE SOURCE: Max-Planck-Inst. Biochem., Martinsried, Fed. Rep. Ger.
SOURCE: Justus Liebigs Annalen der Chemie (1977), (9), 1445-56
CODEN: JLACBF; ISSN: 0075-4617
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 88:105094
GI



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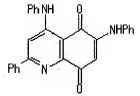

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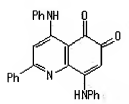

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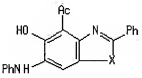


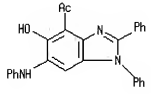
IV

AB Benzoquinone I reacted with PhC(:NH)NHPh to give 49% quinolinequinone II, 2.6% quinolinequinone III, 4% benzoxazole IV (X = O), and benzimidazole IV (X = NPh).

IT **65908-26-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 65908-26-1 HCAPLUS

CN Ethanone, 1-[5-hydroxy-1,2-diphenyl-6-(phenylamino)-1H-benzimidazol-4-yl]-(9CI) (CA INDEX NAME)



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